I claim:

1. An integrated food process line comprising:

a multiplicity of food-product carrying trays for holding and carrying food product;

a plurality of operative cells, each having a track forming a horizontal circuit for defining a pathway for a series of said trays to travel in laps around such pathway, said cells defining enclosed centers;

said cells including mounting structure to stack together in vertically-stacked combinations, multi-variously as desired, to form a tower, wherein said enclosed centers cooperatively define a hollow core for said tower;

a drive system for said trays disposed externally of said cells for motivating said trays in laps around the respective tracks in which a respective series is situated in and for causing transfer of food product from a given tray in one level to a corresponding tray in another level;

an assortment of delivery systems for associating with one or more cells, including any of raw food-product delivery from a supply thereof, dust-material delivery from a supply thereof, breading material delivery from a supply thereof, batter delivery from a supply thereof, thermal delivery from a source or supply thereof, refrigerant delivery from a source or supply thereof, and/or packaging-material delivery from a supply thereof;

a corresponding assortment of cell/delivery-system coupling systems which afford a variety of tower constructions any one of which can process an infeed of food product through a sequence of operations including combinations of any of cooking, pre-dusting, batter application, breading, frying, freezing, and/or packaging.

2. The integrated food process line of claim 1 further comprising a cell for product forming, which cell includes a structure for applying pressure on food product contained in a tray to cause such food product to mold in the shape of the tray and contact surface(s) of the pressure structure.

3. The integrated food process line of claim 2 wherein said product-forming cell is coupled with a thermal delivery system to both form and cook food product during the lap of the trays in the product-forming cell.

4. The integrated food process line of claim 1 wherein said drive system includes magnet coupling between said drive system and the trays.

5. The integrated food process line of claim 1 wherein said drive system includes coupling between said drive systems and trays to cause said trays to rotate at a given zone along the track of the respective cell in order that the food product is dumped into a receiving tray in a lower cell.

6. An integrated food process line comprising:

a multiplicity of food-product carrying trays for holding and carrying food product;

a plurality of operative cells, each having a track forming a horizontal circuit for defining a pathway for a series of said trays to travel in laps around such pathway, said cells defining enclosed centers;

said cells including mounting structure to stack together in vertically-stacked combinations, multi-variously as desired, to form a tower, wherein said enclosed centers cooperatively define a hollow core for said tower;

a drive system for said trays disposed externally of said cells for motivating said trays in laps around the respective tracks in which a respective series is situated in and for causing transfer of food product from a given tray in one level to a corresponding tray in another level;

an assortment of delivery systems for associating with one or more cells, including any of raw food-product delivery from a supply thereof, dust-material delivery from a supply thereof, breading material delivery from a supply thereof, batter delivery from a supply thereof, thermal delivery from a source or supply thereof, and/or refrigerant delivery from a source or supply thereof;

a corresponding assortment of cell/delivery-system coupling systems which afford a variety of tower constructions any one of which can process an infeed of food product through a sequence of operations including combinations of any of cooking, pre-dusting, batter application, breading, frying, freezing, and/or packaging.

7. The integrated food process line of claim 6 further comprising a cell for product forming, which cell includes a structure for applying pressure on food product contained in a tray to cause such food product to mold in the shape of the tray and contact surface(s) of the pressure structure.

8. The integrated food process line of claim 7 wherein said product-forming cell is coupled with a thermal delivery system to both form and cook food product during the lap of the trays in the product-forming cell.

9. The integrated food process line of claim 6 wherein said drive system includes magnet coupling between said drive system and the trays.

10. The integrated food process line of claim 6 wherein said drive system includes coupling between said drive systems and trays to cause said trays to rotate at a given zone along the track of the respective cell in order that the food product is dumped into a receiving tray in a lower cell.